

Title (en)

FLUORESCENCE INTENSITY MULTIPLE DISTRIBUTIONS ANALYSIS: CONCURRENT DETERMINATION OF DIFFUSION TIMES AND MOLECULAR BRIGHTNESS

Title (de)

FLUORESCENZINTENSITÄTSANALYSE UNTER VERWENDUNG EINER VIELZAHL VON VERTEILUNGEN: KONKURRIERENDE BESTIMMUNG VON DIFFUSIONSZEITEN UND MOLEKULARER HELLIGKEIT

Title (fr)

ANALYSE DE REPARTITIONS MULTIPLES D'INTENSITES DE FLUORESCENCE, DETERMINATION CONCURRENTE DE DUREES DE DIFFUSION ET DE BRILLANCE MOLECULAIRE

Publication

**EP 1254353 B1 20040414 (EN)**

Application

**EP 01903729 A 20010209**

Priority

- EP 01903729 A 20010209
- EP 0101431 W 20010209
- EP 00126774 A 20001206
- US 18156400 P 20000210

Abstract (en)

[origin: WO0159416A1] The present invention relates to a method for characterizing samples having fluorescent particles, comprising the steps of: (a) monitoring intensity fluctuations of fluorescence emitted by the particles in at least one measurement volume by detecting sequences of photon counts by at least one photon detector, (b) determining from the sequences of photon counts intermediate statistical data comprising at least two probability functions,  $P_1(n_1)$ ,  $P_2(n_2)$ , ..., of the number of photon counts,  $n_1$ ,  $n_2$ , ..., detected in different sets of counting time intervals, (c) determining from said intermediate statistical data a distribution of particles as a function of at least two arguments, wherein one argument is a specific brightness of the particles, or a measure thereof, and another argument is a diffusion coefficient of the particles, or a measure thereof.

IPC 1-7

**G01J 3/44**

IPC 8 full level

**G01J 3/44** (2006.01); **G01J 3/457** (2006.01); **G01N 21/64** (2006.01); **G01J 3/28** (2006.01)

CPC (source: EP)

**G01J 3/4406** (2013.01); **G01J 3/457** (2013.01); **G01N 21/64** (2013.01); **G01N 21/6458** (2013.01); **G01J 2003/2866** (2013.01); **G01N 21/6408** (2013.01); **G01N 2021/6421** (2013.01); **G01N 2021/6463** (2013.01)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0159416 A1 20010816**; AT E264499 T1 20040415; AU 3172301 A 20010820; DE 60102797 D1 20040519; DE 60102797 T2 20050908; EP 1254353 A1 20021106; EP 1254353 B1 20040414

DOCDB simple family (application)

**EP 0101431 W 20010209**; AT 01903729 T 20010209; AU 3172301 A 20010209; DE 60102797 T 20010209; EP 01903729 A 20010209